

UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



DOCTORATE SCHOOL OF INDUSTRIAL ENGINEERING

DOCTORATE PROGRAM IN
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ENGINEERING
XXII CYCLE

PhD THESIS
Volume I

HYDRODYNAMICS OF PLANING HULLS

A POWER PREDICTION METHOD FOR WARPED
V-BOTTOM HULL FORMS

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12.5 Models: Geometry and Tests

Series BK is composed by nine hull models with the same dimensions and different shapes.

Model BK-1 has a single chine per side: a sharp edge chine at each intersection of the bottom and side; this single chine is developed throughout the length of the hull itself.

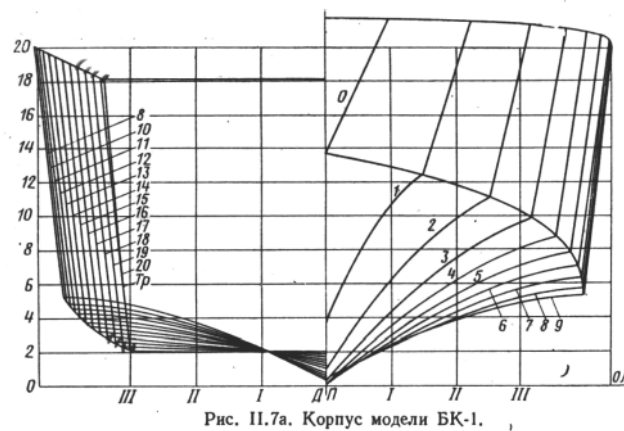


Figure 12.5-1 Transversal sections of Model BK-1

Model BK-2 has the same shape of model BK-1: the distinctive feature of the model BK-2 is the rounding to the keel.

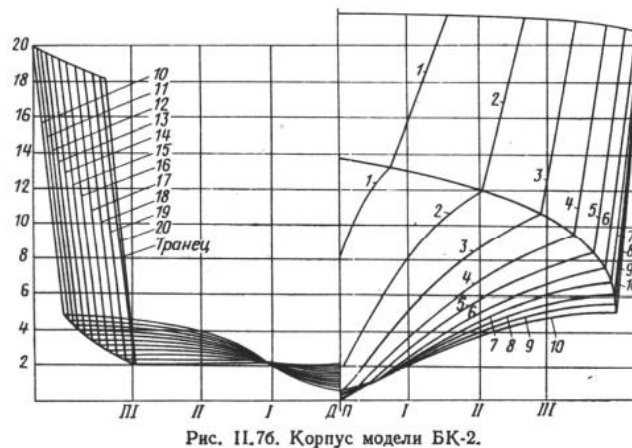
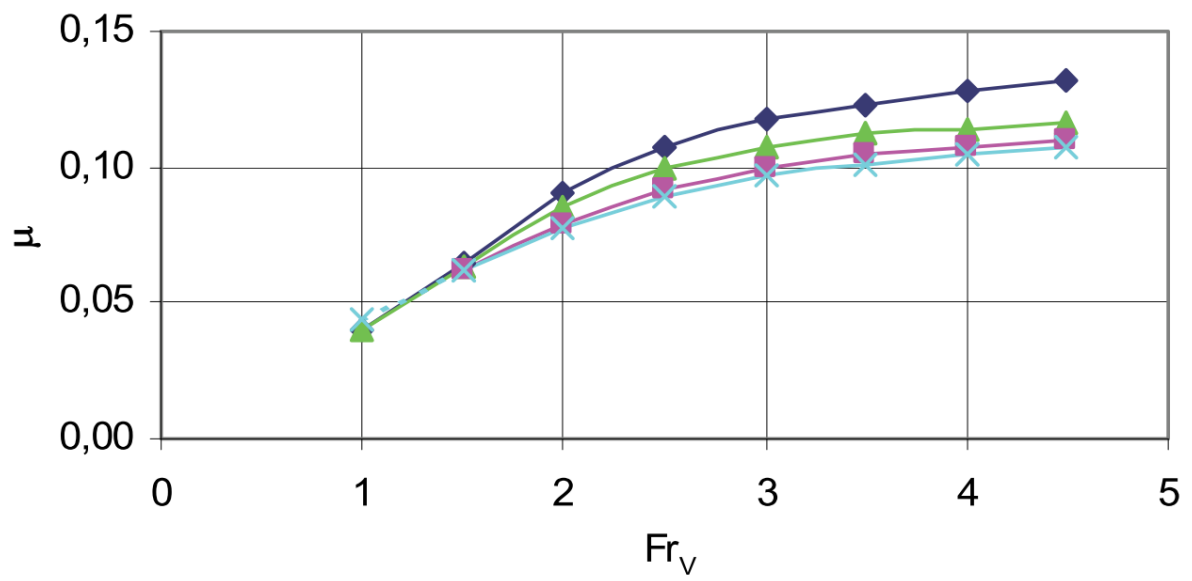
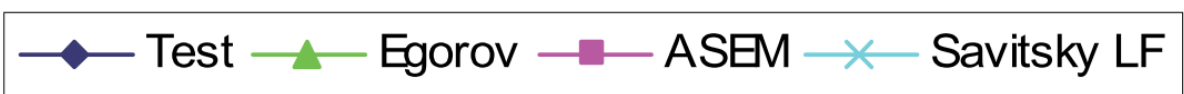
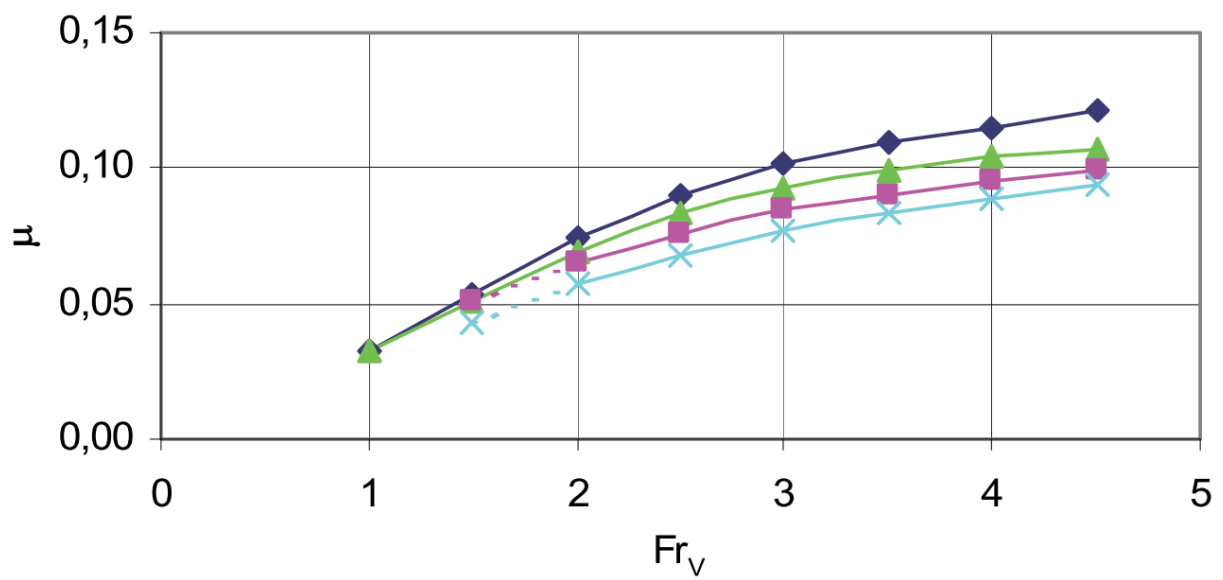


Figure 12.5-2 Transversal sections of Model BK-2

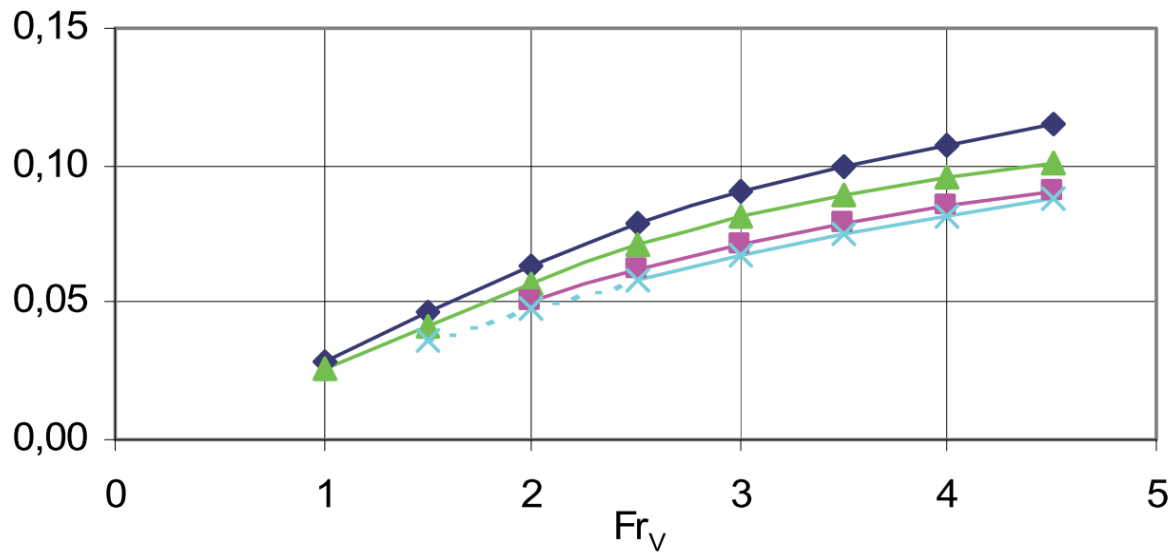
BK Series - Model BK-1 - Case 1



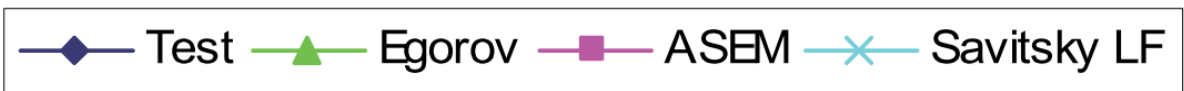
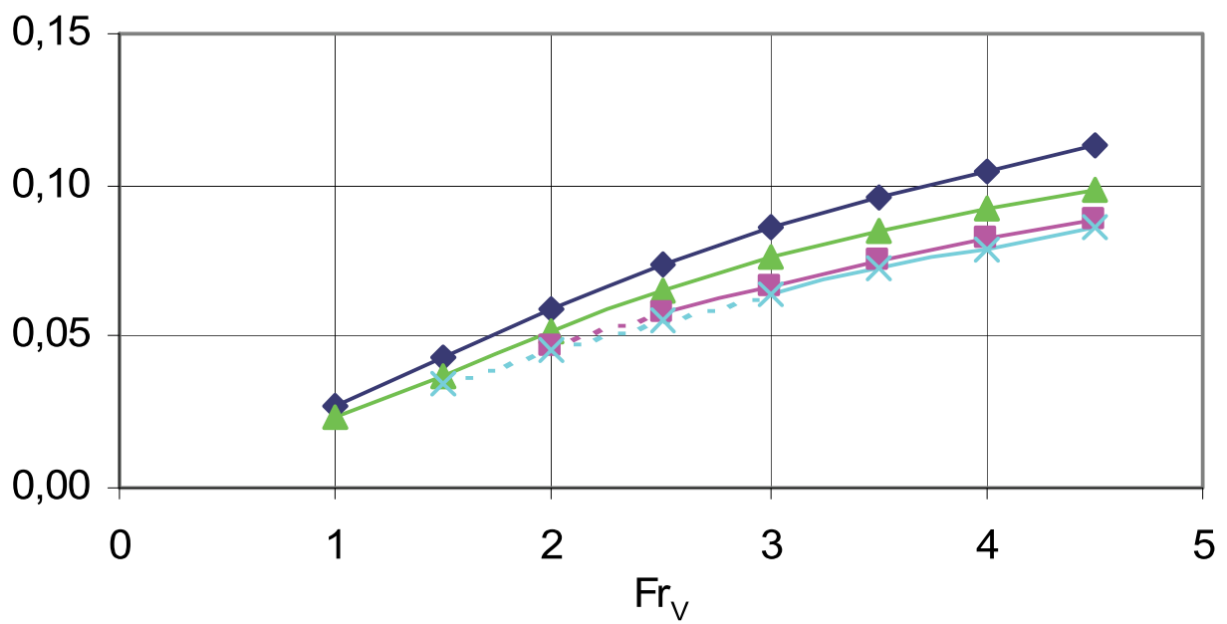
BK Series - Model BK-1 - Case 2



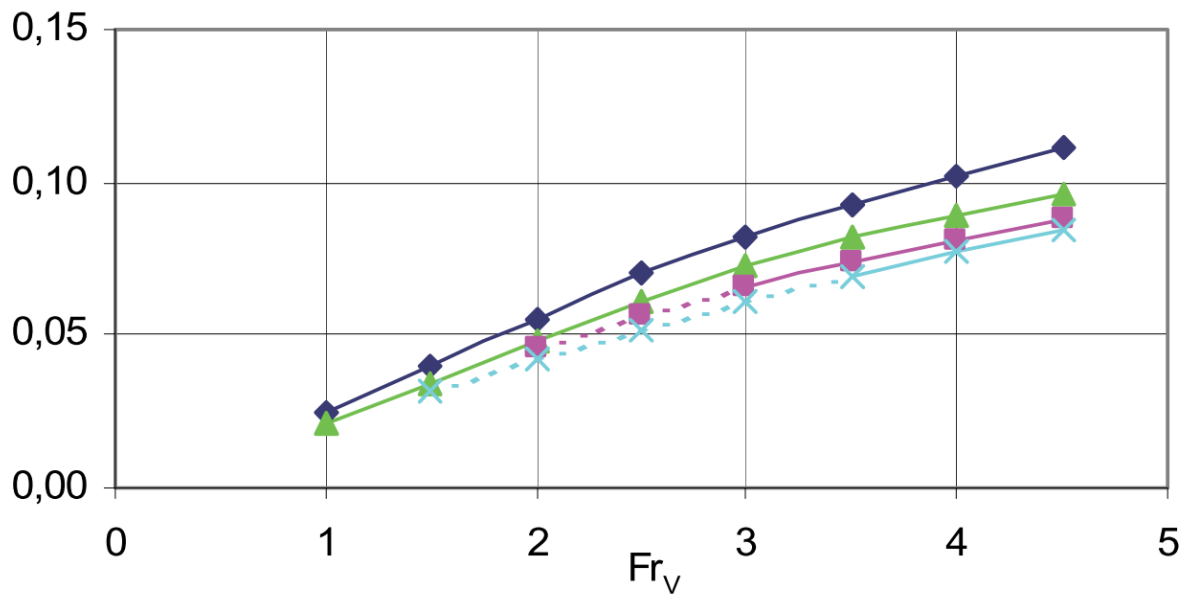
BK Series - Model BK-1 - Case 3



BK Series - Model BK-1 - Case 4



BK Series - Model BK-1 - Case 5



BK Series - Model BK-1 - Case 6

